

REMARKS

By this amendment, Claims 1, 3 and 6 have been amended. Claims 1-6 remain pending in the application, with Claims 1, 3 and 6 being independent claims. Claims 1 and 2 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Wong (U.S. Patent No. 6,615,026 B1) in view of newly cited Thill (U.S. Patent No. 5,678,201). Claims 3-5 are again rejected under 35 U.S.C. § 102(e) as being anticipated by Tran (U.S. Patent No. 6,184,833 B1). Claim 6 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Tran in view of Wong and Thill.

Regarding Claims 1, and 2, the Examiner now concedes that Wong does not disclose coupling each antenna to a BALUN, relies on Thill for this deficiency, and asserts that it would have been obvious to couple each antenna in Wong with a BALUN, allegedly taught by Thill, to match impedances between each stage in the circuit.

Regarding Claim 6, the Examiner concedes that Tran does not disclose that the antenna is a set of dipole antennas that are fed the same power through phase control means, or that each antenna is coupled to an individual BALUN. The Examiner relies on Wong for teaching an array of phase controlled antennas, and asserts that it would have been obvious to provide an array of antennas with phase controlled power-feed in a portable phone. The Examiner relies on Thill for teaching the use of BALUNs coupled to antennas, and asserts that it would have been obvious to couple each antenna of the Wong antennas to a BALUN.

Claims 1 and 6 have been amended to each recite, in part, phase control means for feeding power and resonant current to each of the dipole antennas and for controlling respective phases of powers to be fed to the dipole antennas, wherein a phase of a first current in a first antenna of the plurality of dipole antennas and a phase of a second current in a second antenna of the plurality of dipole antennas is controlled such that an electromagnetic field in the vicinity of a user's head is reduced.

Tran describes a dual strip antenna. Tran is silent regarding the current provided to the antenna 200 shown in FIG. 2. Wong describes a portable telephone with an antenna structure that directs radiated energy away from the user's head. Wong is silent regarding the current provided to antenna 12 or radiating elements 32 and 34. Thill describes an antenna assembly with a BALUN and tuning element for a portable radio. Thill is silent regarding current provided to antenna assembly shown in FIG. 1.

Claim 3 has been amended to recite, in part, a dipole antenna arranged on the second surface of the printed circuit board, the dipole antenna being powered with resonant current. Tran is also silent regarding current provided to the antenna assembly shown in FIG. 3.

Tran, Wong, Thill, or any combination thereof, fails to teach or reasonably suggest providing a phase control means for feeding power and resonant current to each of the dipole antennas and for controlling respective phases of powers to be fed to the dipole antennas, wherein a phase of a first current in a first antenna of the plurality of dipole antennas and a phase of second current in a second antenna of the plurality of dipole antennas is controlled such that an electromagnetic field in the vicinity of a user's head is reduced, as recited in Claims 1 and 6. Tran fails to teach or reasonably suggest a portable communication terminal including a dipole antenna arranged on the second surface of the printed circuit board, the dipole antenna being powered with resonant current, as recited in Claim 3.

Accordingly, amended Claims 1 and 6 are allowable over Tran, Wong, Thill, or any combination thereof, and amended Claim 3 is allowable over Tran.

While not conceding the patentability of the dependent claims, *per se*, Claims 2, 4 and 5 are also allowable for at least the above reasons.

Accordingly, all of the claims pending in the Application, namely, Claims 1-6, are in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicant's attorney at the number given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paul J. Farrell", written over the printed name.

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